Title (en)

FREQUENCY OFFSET COMPENSATION IN CELLULAR COMMUNICATION SYSTEMS

Title (de)

KOMPENSATION VON FREQUENZOFFSETS IN ZELLULAREN KOMMUNIKATIONSSYSTEMEN

Title (fr)

COMPENSATION DE DÉCALAGE FRÉQUENTIEL DANS DES SYSTÈMES CELLULAIRES DE TÉLÉCOMMUNICATION

Publication

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Application

EP 20209657 A 20170309

Priority

- EP 16160533 A 20160315
- EP 16163943 A 20160405
- EP 16171552 A 20160526
- EP 17709447 A 20170309
- EP 2017055581 W 20170309

Abstract (en)

An infrastructure equipment, which forms part of a mobile communications network is configured to transmit signals to and receive signals from one or more communications devices. The infrastructure equipment comprises a receiver configured to receive signals on the uplink from the one or more communications devices via a wireless access interface of the mobile communications network, a transmitter configured to transmit signals on the downlink to the one or more communications devices via the wireless access interface, and a controller configured to control the receiver to receive the signals and to control the transmitter to transmit the signals. One of the communications devices is configured to control transmissions in order to avoid frequency drift. The communications device is configured to receive from the infrastructure equipment an indication of communications resources in which the transmitter can transmit signals to the infrastructure equipment, to determine whether a period required to transmit an uplink transmission to the infrastructure equipment in the indicated communications resources exceeds a predetermined threshold, and if so, subsequently to control the transmitter not to signals to the infrastructure equipment using the indicated communications resources. The communications device may be configured to search for a second infrastructure equipment to which the uplink transmission can be transmitted, and to control the transmitter to transmit signals to the second infrastructure equipment on second communications resources indicated by the second infrastructure equipment rather than using the indicated communications resources of the first infrastructure equipment.

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

- EP 16160533 A 20160315
- EP 16163943 A 20160405
- EP 16171552 A 20160526
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Citation (search report)

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